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PATENT

Attorney Reference Number 3382-68602-01
Application Number 09/811,236

Claims

Pursuant to 37 CFR § 1.121(c), please amend the claims as shown in the following listing of claims:

1-25. (Canceled)

26. (Currently Amended) A method as recited in claim ~~25~~ 65, wherein the storing comprises storing the definition on a computer-readable medium resident at the controlled device.

27. (Currently Amended) A method as recited in claim ~~25~~ 65, wherein the storing comprises storing at least part of the definition on a computer-readable medium located remotely from the controlled device.

28-64. (Canceled)

65. (Previously Presented) A method for accessing a user-selectable service on a controlled device in an ad hoc network, the method comprising:

creating a definition of the controlled device using an XML-based language, wherein the definition includes a service control protocol definition;

storing the definition on at least one computer-readable medium;

identifying a set of states in a service state table on the controlled device in accordance with the service control protocol definition for the user-selectable service;

determining a set of commands in accordance with the service control protocol definition to control the user-selectable service and to update the set of states identified by the service state table; and

generating a service control protocol in accordance with the service control protocol definition to interact with the user-selectable service, wherein the service control protocol comprises plural network messages having a content and a sequence used to interact with the user-selectable service;

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wherein the definition of the controlled device comprises XML-language elements to identify on the controlled device the manufacturer, model name, and model description;

wherein the definition comprises a root device element, a unique device name element, a friendly name element, a device type element, and an icon list element.

66. (Previously Presented) The method of claim 65 wherein the icon list element comprises an icon element, an icon size element, an icon color element, an icon depth element, an icon image type element, and an icon image element.

67-74. (Canceled)

75. (Currently Amended) The method of claim ~~25~~ 65 wherein the controlled device is configured at least with one of: networking capabilities according to Universal Plug and Play standards and transport message mechanism according to General Event Notification Architecture (GENA) standards and Simple Service Discovery protocol standards.

76. (Canceled)

77. (Previously Presented) The method of claim 65 wherein the service control protocol comprises a wire protocol definition, a sequence definition, and a content definition.

78. (Canceled)

79. (Currently Amended) The method of claim ~~78~~ 65 wherein the definition of the controlled device further comprises a service element.

80. (Previously Presented) The method of claim 79 wherein the service element comprises a service type element, a control URL element, an event subscription URL element, and a service control protocol declaration element.

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81. (Previously Presented) The method of claim 65 wherein the service control protocol definition comprises an XML document consisting of a root element, a service state table element, and an action list element.

82. (Previously Presented) The method of claim 81 wherein the service state table element comprises a set of state variable elements to represent the set of states in the service state table.

83. (Previously Presented) The method of claim 81 wherein the action list element comprises a set of action elements to specify the name of an action to invoked on the controlled device.

84. (New) A computer-readable data-carrying media having encoded thereon a software program executable on a computing device for performing a method for accessing a user-selectable service on a controlled device in an ad hoc network, the method comprising:

- creating a definition of the controlled device using an XML-based language, wherein the definition includes a service control protocol definition;
- storing the definition on at least one computer-readable medium;
- identifying a set of states in a service state table on the controlled device in accordance with the service control protocol definition for the user-selectable service;
- determining a set of commands in accordance with the service control protocol definition to control the user-selectable service and to update the set of states identified by the service state table; and
- generating a service control protocol in accordance with the service control protocol definition to interact with the user-selectable service, wherein the service control protocol comprises plural network messages having a content and a sequence used to interact with the user-selectable service;

wherein the definition of the controlled device comprises XML-language elements to identify on the controlled device the manufacturer, model name, and model description;

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wherein the definition comprises a root device element, a unique device name element, a friendly name element, a device type element, and an icon list element.

85. (New) The media of claim 84, wherein the icon list element comprises an icon element, an icon size element, an icon color element, an icon depth element, an icon image type element, and an icon image element.

86. (New) The media of claim 84, wherein the controlled device is configured at least with one of: networking capabilities according to Universal Plug and Play standards and transport message mechanism according to General Event Notification Architecture (GENA) standards and Simple Service Discovery protocol standards.

87. (New) The media of claim 84, wherein the service control protocol comprises a wire protocol definition, a sequence definition, and a content definition.

88. (New) The media of claim 84, wherein the definition of the controlled device further comprises a service element.

89. (New) The media of claim 88, wherein the service element comprises a service type element, a control URL element, an event subscription URL element, and a service control protocol declaration element.

90. (New) The media of claim 84, wherein the service control protocol definition comprises an XML document consisting of a root element, a service state table element, and an action list element.

91. (New) The media of claim 90, wherein the service state table element comprises a set of state variable elements to represent the set of states in the service state table.

92. (New) The media of claim 90, wherein the action list element comprises a set of action elements to specify the name of an action to invoked on the controlled device.